

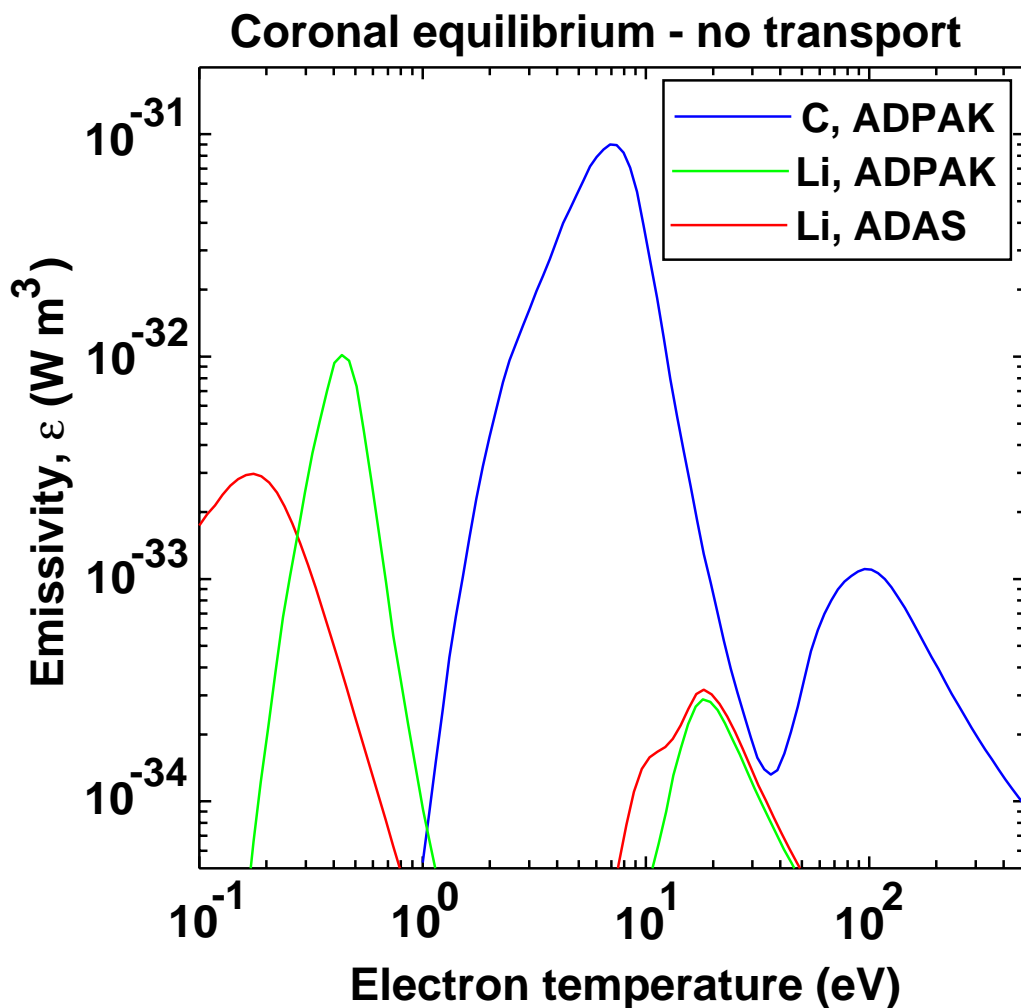
# Carbon emissivity is much larger than for Lithium



Radiated power density =  $\epsilon n_e n_z$

ADPAK and ADAS give similar results for high  $T_e$

During the DIII-D DiMES thermal collapse,  $T_{\text{edge}} \sim 10$  eV

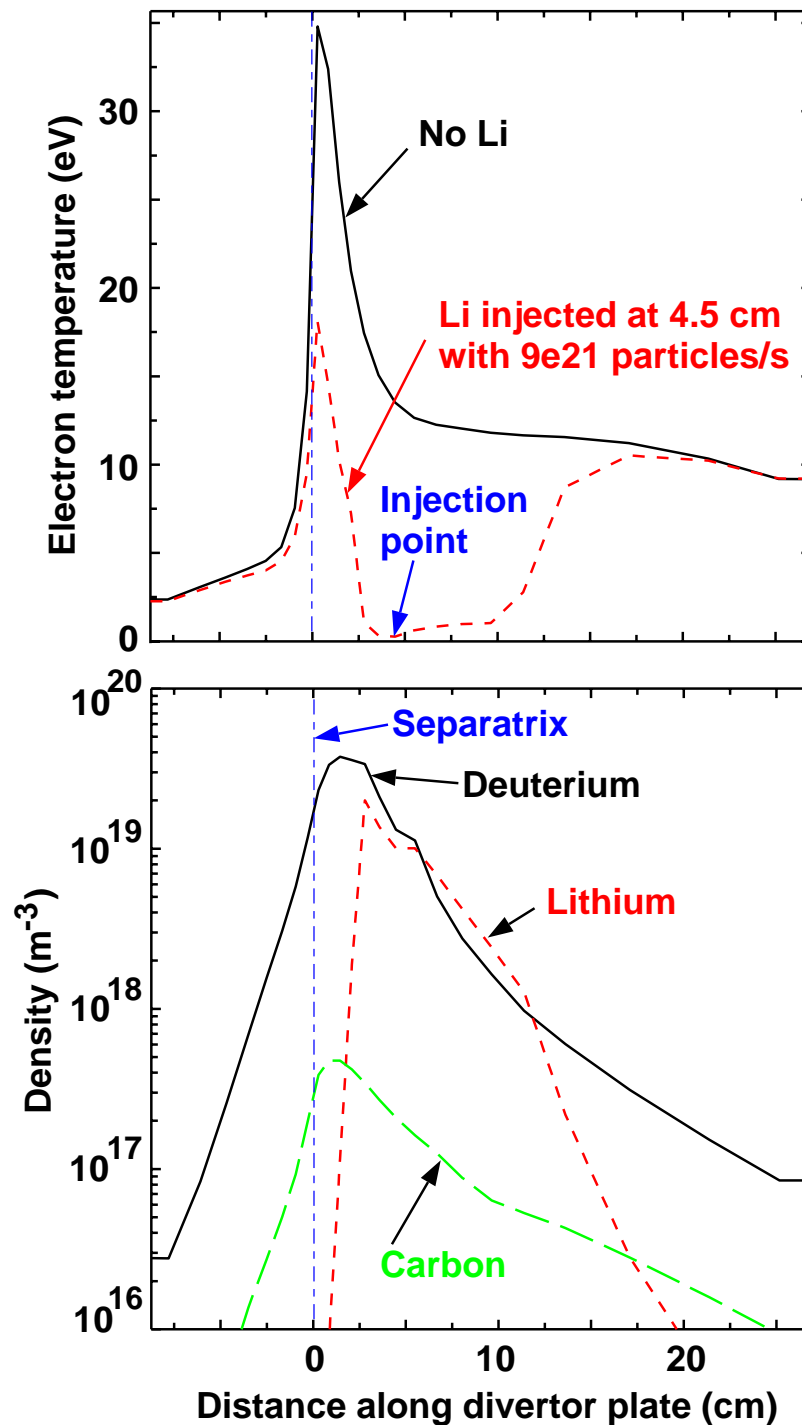


# Lithium point-injection on outer plate depresses $T_e$ locally



Li injected at one mesh point to model DiMES probe

Core power is 0.8 MW, C rad. = 0.19 MW, Li rad. = 0.14 MW



# Midplane profiles unaffected by lithium source of $9 \times 10^{21}$ particles/s



> 80% of the impurity radiation is below the X-point

